

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Before calculating the U.S. National Fees, please cancel claims 3-17 of the original International Application and add new claims 18-43 as follows:

Listing of Claims:

1. (currently amended) A polymer ~~Polymer~~ powder produced by a process of milling or precipitating comprising ~~characterized in that it has~~ a surface which is ~~being~~ compact and not jagged.

2. (currently amended) A polymer ~~Polymer~~ powder for producing a three-dimensional object by means of laser sintering, wherein ~~characterized in that the powder comprises a~~ BET-surface which is smaller than $6 \text{ m}^2/\text{g}$ and at the same time the upper grain limit is below $100\mu\text{m}$, the $D_{0.9}$ -value is below $90 \mu\text{m}$, and the $D_{0.5}$ -value is below $60 \mu\text{m}$ and the particles comprise a basically spherical shape.

Claims 3-17 (cancelled)

18. (New) A polymer powder according to claim 1 for producing a three-dimensional object by means of laser sintering, wherein the powder comprises a BET-surface which is smaller than $5 \text{ m}^2/\text{g}$ and at the same time the upper grain limit is below $100\mu\text{m}$, the $D_{0.9}$ -value is below $80 \mu\text{m}$, and the $D_{0.5}$ -value is below $55 \mu\text{m}$ and the particles comprise a basically spherical shape

19. (New) A powder according to claim 1, wherein the powder has a BET-surface having a value smaller than or equal to $4 \text{ m}^2/\text{g}$.

20. (New) A powder according to claim 19, wherein the powder has a BET-surface having a value smaller than or equal to $3 \text{ m}^2/\text{g}$.

21. (New) A powder according to claim 20, wherein the powder has a BET-surface having a value smaller than or equal to $2 \text{ m}^2/\text{g}$.

22. (New) A powder for manufacturing a three-dimensional object by means of laser sintering according to claim 1, wherein a laser sintering refreshing factor is less than 50 percent.

23. (New) A powder according to claim 22, wherein the refreshing factor is less than 30 percent.

24. (New) A powder according to claim 1, wherein the powder is a polyamide powder.

25. (New) A powder according to claim 1, wherein the powder consists of polyamide 11 or polyamide 12.

26. (New) A powder according to claim 24, wherein the powder is a precipitated PA12 powder.

27. (New) A polymer powder according to claim 2 for producing a three-dimensional object by means of laser sintering, wherein the powder comprises a BET-surface which is smaller than $5 \text{ m}^2/\text{g}$ and at the same time the upper grain limit is below $100\mu\text{m}$, the $D_{0.9}$ -value is below $80 \mu\text{m}$, and the $D_{0.5}$ -value is below $55 \mu\text{m}$ and the particles comprise a basically spherical shape

28. (New) A powder according to claim 2, wherein the powder has a BET-surface having a value smaller than or equal to $4 \text{ m}^2/\text{g}$.

29. (New) A powder according to claim 28, wherein the powder has a BET-surface having a value smaller than or equal to $3 \text{ m}^2/\text{g}$.

30. (New) A powder according to claim 29, wherein the powder has a BET-surface having a value smaller than or equal to $2 \text{ m}^2/\text{g}$.

31. (New) A powder for manufacturing a three-dimensional object by means of laser sintering according to claim 2, wherein a laser sintering refreshing factor is less than 50 percent.

32. (New) A powder according to claim 31, wherein the refreshing factor is less than 30 percent.

33. (New) A powder according to claim 2, wherein the powder is a polyamide powder.

34. (New) A powder according to claim 2, wherein the powder consists of polyamide 11 or polyamide 12.

35. (New) A powder according to claim 33, wherein the powder is a precipitated PA12 powder.

36. (New) A method for producing a powder according to one of claims 1, 2, 18-35, wherein as a base material a plastic powder attained by means of precipitation or milling is used which is mechanically or mechanically-thermally mixed for at least one minute in an appropriate aggregate.

37. (New) A method according to claim 36 wherein the base material has at least one further powder component.

38. (New) A method according to claim 37 wherein a further powder component is a polymer powder or an additive.

39. (New) A method for manufacturing a three-dimensional object by means of laser sintering wherein subsequent layers of the object to be formed are subsequently solidified from solidifiable powder material in positions corresponding to the object and a powder according to claims 1, 2, 18-35 is used as powder material.

40. (New) A method according to claim 39 wherein the powder base material has at least one further powder component.

41. (New) A method according to claim 40 wherein a further powder component is a polymer powder or an additive.